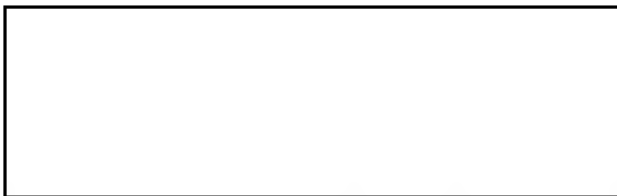


CONFIDENTIAL

997304

January 18, 1965



Contracting Officer

25X1A

Ref: Contract



25X1A

Gentlemen:

Enclosed is the Monthly Status Report #1 for the period from
1 December 1964 through 31 December 1964, for subject contract.
If there are any questions concerning the report, please contact
the undersigned.

Very truly yours,



Contract Administration

25X1A

Enclosure: As stated

GROUP - 1

EXCLUDED FROM AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

Declass Review by NIMA / DoD

This document contains information
affecting the national defense of the United
States, within the meaning of the Espionage
Laws, Title 18, U.S.C., Sections 793 and 794,
the transmission or revelation of which
in any manner to an unauthorized person
is prohibited by law.

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Monthly Status Report #1
Period 1 December 1964 to 1 January 1965

1. Description of Approach and Progress During the Reporting Period

A. Advanced Light Tables - The project has been scheduled and engineering personnel selected to participate in the design and fabrication of the three advanced light tables. Preliminary designs are being completed for model fabrication. Designs will be submitted to the shop for:

- 1) A wooden model to illustrate 75° and 45° motions of Table #1.
- 2) A model of the proposed film transport mechanism.

Model #1 above will be a wooden full scale model of light Table #1 illustrating a method of continuous adjustment of the table over the specified tilt range.

Model #2 above will be a mock-up of the film transport mechanism. The purpose of Model #2 is to determine optimum film transport speeds and torques for the operating model and slew mode. Various gear ratios will be tried while transporting a 500' roll of 9-1/2 inch film. The presence of the customer is requested to assist in the determination of the optimum gear ratios for the two speed transmission which will be installed in the finished products. It is anticipated that the above models will be completed by 25 January 1965 for customer inspection.

B. Light Source - Electrical - Preliminary investigations into the High Frequency Power Supply have begun with emphasis now being placed on primary light source selection. A cold cathode lamp was acquired for investigation into using this type of light source. A preliminary schematic of the basic power supply without the dimmer has been drawn up. Two methods of dimming are being investigated. The first, which varies the pulse duration of the input voltage to the light source, is the proposed method at the moment. However, a basic problem having to do with the delay and ionization time of the recommended light source may limit our operation in this mode. The second method of dimming being investigated is the utilization of a saturable core reactor in the secondary of the output transformer. This method, according to one lamp vendor, will give us the operating characteristics we require and may be the most reliable.

2. Experimental Equipment Purchased or Constructed

None.

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3. Changes in Key Personnel

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[redacted] is acting as assistant Project Director [redacted] is performing the electrical design, and two Mechanical Engineers, [redacted] are engaged in the design and layout of the three light tables.

4. Trips, Meetings, and Special Conferences

The customer visited us on 5 December 1964.

5. Customer Assistance Required

None.

6. Cumulative Percent Completion Towards the Objective

Approximately 10% of the work has been completed on this project.

7. Work Plans for the Ensuing Month

- A. Fabrication of two models.
- B. Design for castings of Light Table #1 and #2.
- C. Determination of torque and operating speeds of film transport mechanism.

TRANSMITTAL SLIP		DATE <i>1/27/65</i>
TO:	<i>NPIC</i>	
ROOM NO.		
REMARKS:		
<p style="text-align: center;"><u><i>LOS</i></u></p> <p><i>Bill - Please see the Tech</i></p> <p><i>office on</i></p> <p><i>gets this report</i></p>		
FROM:		
ROOM NO.	1508	

FORM NO. 241
1 FEB 55

REPLACES FORM 36-8
WHICH MAY BE USED.

GPO : 1957-O-439445 (47)